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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/515,537	15,537 02/29/2000		Mika Valkonen	P/1805-15	1026
2352	7590	04/01/2004		EXAMINER	
		BER GERB & SOFF	WONG, ALLEN C		
	UE OF THE AMERICAS C, NY 100368403			ART UNIT	PAPER NUMBER
	<b>-,</b>			2613	16
				DATE MAILED: 04/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/515,537	VALKONEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Allen Wong	2613					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a rep n. a reply within the statutory minimum of thirty of eriod will apply and will expire SIX (6) MONTH tatute, cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 1	3 February 2004.						
·- · · -	This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)  Claim(s) 1-19 is/are pending in the applica 4a) Of the above claim(s) is/are with 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-19 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction are	drawn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the co	•	•					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for force</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the application from the International Buent</li> <li>* See the attached detailed Office action for an application from the application for an application from the action for an application for an application from the action for an application from the action for a act</li></ul>	nents have been received. nents have been received in App priority documents have been re reau (PCT Rule 17.2(a)).	plication No eceived in this National Stage					
Attachment(s)  1)  Notice of References Cited (PTO-892)	4) ☐ Interview Sui	mman/ (PTO-413)					
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s)/	Mail Date					
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>13</u>.</li> </ol>	3/08) 5)  Notice of Info 6)  Other:	ormal Patent Application (PTO-152) -					

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#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/13/04 has been entered.

## Response to Arguments

2. Applicant's arguments with respect to claims 1-2 and 19 have been fully read and considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rudt (5,717,456) and Katz (5,956,081) in view of Hunt (EP 0 366 235 A1).

Regarding claims 1-2, Rudt discloses the method for synchronizing image data from images of a moving paper web obtained from a plurality of cameras, the method comprising:

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placing each of the plurality of cameras in a position to take a respective image different from the images taken by the others of the plurality of cameras, and taking images using at least some of the plurality of cameras (fig.1, note there are numerous cameras 10 to obtain images and col.5, ln.18-24);

storing image data from the images taken from each of the at least some of the plurality of cameras in at least one digital image processor (fig.1, note there are numerous image storage units 18 that correspond for cameras 10 and col.6, ln.44-48);

selecting at least some images of an area of the web and taken from a first of the at least some of the plurality of cameras and corresponding to respective image data for display and analysis on an operator's computer screen (fig.1, element 26 is a display means; also col.6, ln.60-64, Rudt discloses that the display means is capable of displaying data to the satisfaction of the operator, thus Rudt suggests that selection of different camera positions on display is feasible since the intent is to satisfy the operator);

searching the image data for images taken from at least a second of the at least some of the plurality of cameras and depicting the same area in a corresponding paper web using synchronization means (col.7, In.52-64; Rudt discloses the control means 20 is the synchronization means because it can coordinate the clips and scan or search all the stored images depicting the deviation event or the same area in the web),

displaying a selection area on the operator's computer screen representing fewer than all images from one of the at least some of the plurality of cameras, wherein the number of images represented by the selection area is provided by the synchronization

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means when an image displayed on the screen and originating from one camera changes to another image originating from another camera (see fig.1, note the connection 24 between the synchronization means 20 and the display means 26, where the operator can visualize the images; and also in col. 6, ln.60-64, Rudt discloses that the display means is capable of displaying data to the satisfaction of the operator, thus Rudt suggests that displaying images from the different camera positions in different sizes can be done to satisfy the operator's viewing and analytical purposes; col.5, ln.8-12, Rudt discloses the image displayed is dependent on hole or discontinuity of the paper web and the distance of cameras to determine deviations or discontinuities).

Rudt does not specifically disclose displaying a selection area on the operator's computer screen that represents images in the sequence of images, the interface further comprising a selection control to select an image in the sequence of images. However, Katz teaches the use of the user interface comprising a selection area that represents images in the sequence of images, the interface further comprising a selection control to select an image in the sequence of images (see fig.2 and col.col.3, ln.59-62, Katz discloses that all related views can be selected by operator for viewing on a computer screen, where in fig.2A, the operator can choose up to 16 different views on one screen if desired, as disclosed in col.4, ln. 23-26; also col.4, ln.3-15, Katz also discloses that the operator can select the view(s) with the use of a computer via mouse or keyboard, and if desired, a touch screen input on the monitor can be used).

Therefore, it would have been obvious to one of ordinary skill in the art to take the teachings of Rudt and Katz as a whole for implementing a user interface so as to allow

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the operator the flexibility and convenience of operating a display system with ease when viewing images from an event. Doing so would enhance the synchronization of the image data obtained by the plural cameras and provide a safe, robust, less costly display system.

Although Rudt and Katz does not specifically disclose defining at least one parameter, wherein the at least one parameter represents at least one of the velocity of the paper web and the distance between the cameras. However, Hunt teaches the defining at least one parameter, wherein the at least one parameter represents at least one of the velocity of the paper web and the distance between the cameras (col.5, ln.33-37 and element 32 of fig.1 and fig.2A, a tachometer is used to monitor the speed or velocity of a moving web or article and that element 8 processes the data taken from the tachometer and element 9 does some quality control analysis). Therefore, it would have been obvious to one of ordinary skill in the art to take Rudt, Katz and Hunt as a whole for implementing the definition of a velocity characteristic during the monitoring of a web for quality control purposes and other applications such as stop action photography, low light photography, photographic archivial recording, intermittent condition monitoring, and video security (col.1, ln.10-17).

Regarding claims 3 and 6, Rudt discloses the monitoring of the paper web (col.5, ln.8-24).

Regarding claims 4, 5 and 7-16, Rudt discloses that the image data of the camera position with the highest-level variation is selected for display (col.6, In.53-57;

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Rudt discloses that the image data with the highest-level variation or deviation is displayed).

Regarding claims 17-18, Rudt discloses the use of a computer (col.6, ln.59-62; a computer must have input means like a keyboard or mouse). Rudt does not specifically disclose the use of a pointer, enabling the operator to select at least one of the images. However, Katz teaches the use of a pointer, enabling the operator to select at least one of the images (col.4, ln.10-13; Katz discloses that a mouse, having a pointer to select one of the images, can be used). Therefore, it would have been obvious to one of ordinary skill in the art to take the teachings of Rudt and Katz as a whole for implementing a user interface so as to allow the operator the flexibility and convenience of operating a display system with ease when viewing images from an event.

Regarding claim 19, Rudt discloses a method for displaying a plurality of images of a moving object obtained from a plurality of cameras, the method comprising:

placing each of the plurality of cameras in a position to take a respective image different from the images taken by others of the plurality of cameras, and taking images using at least some of the plurality of cameras (fig.1, note there are numerous cameras 10 and col.5, ln.18-24);

storing image data from the images in digital processors (fig.1, note there are numerous image storage units 18 that correspond for cameras 10 and col.6, ln.44-48);

obtaining variation information from the image data, the variation information representing a variation in a sequence of images from each of at least two of the plurality of cameras (col.7, In.52-64; Rudt discloses the control means 20 is the

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synchronization means because it can coordinate the clips and scan or search all the stored images, obtained from each of at least two cameras, depicting the deviation, ie. variation, or the same area in the web);

comparing the variation information from each of the at least two cameras to determine a first camera of the plurality of cameras that provided the highest degree of variation in the sequence of images (col.7, ln.52-64; Rudt discloses the control means 20 is the synchronization means because it can coordinate and compare the clips and scan or search all the stored images, obtained from each of at least two cameras, depicting the deviation, ie. variation, or the same area in the web);

displaying a single image of the object from the sequence of images received from the first camera (col. 6, ln.60-64, Rudt discloses that the display means is capable of displaying data to the satisfaction of the operator, thus Rudt suggests that displaying images from the different camera positions in different sizes can be done to satisfy the operator's viewing and analytical purposes);

synchronizing the image information representing images received from at least two other cameras to illustrate the object shown in the single image (see fig.1 and col.7, ln.52-64, note the connection 24 between the synchronization means 20 and the display means 26, where the operator can visualize the images and that element 20 is also the synchronization means because it can coordinate the clips and scan or search all the stored images depicting the deviation event or the same area in the web); and

providing a user interface comprising a selection area that represent fewer than all images in the sequence of images from one of a plurality of cameras, the interface

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further comprising a selection control to select an image in the sequence of images, wherein the number of images represented by the selection area depends on at least one of the speed of the moving object and the distance between the cameras, and wherein images from the at least two cameras are displayed that correspond to the image selected by the selection control (col. 6, ln.60-64, Rudt discloses that the display means is capable of displaying data to the satisfaction of the operator, thus Rudt suggests that displaying images from the different camera positions in different sizes can be done to satisfy the operator's viewing and analytical purposes; col.5, ln.8-12, Rudt discloses the image displayed is dependent on the speed of the paper web and the distance of cameras to determine deviations or discontinuities).

Rudt does not specifically disclose the user interface comprising a selection area that represents images in the sequence of images, the interface further comprising a selection control to select an image in the sequence of images. However, Katz teaches the use of the user interface comprising a selection area that represents images in the sequence of images, the interface further comprising a selection control to select an image in the sequence of images (see fig.2 and col.col.3, ln.59-62, Katz discloses that all related views can be selected by operator for viewing on the operator's computer screen, where in fig.2A, the operator can choose up to 16 different views on one screen if desired, as disclosed in col.4, ln. 23-26; also col.4, ln.3-15, Katz also discloses that the operator can select the view(s) with the use of a computer via mouse or keyboard, and if desired, a touch screen input on the monitor can be used). Therefore, it would have been obvious to one of ordinary skill in the art to take the teachings of Rudt and

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Katz as a whole for implementing a user interface so as to allow the operator the flexibility and convenience of operating a display system with ease when viewing images from an event. Doing so would enhance the synchronization of the image data obtained by the plural cameras and provide a safe, robust, less costly display system.

Although Rudt and Katz does not specifically disclose defining at least one parameter, wherein the at least one parameter represents at least one of the velocity of the paper web and the distance between the cameras. However, Hunt teaches the defining at least one parameter, wherein the at least one parameter represents at least one of the velocity of the paper web and the distance between the cameras (col.5, ln.33-37 and element 32 of fig.1 and fig.2A, a tachometer is used to monitor the speed or velocity of a moving web or article and that element 8 processes the data taken from the tachometer and element 9 does some quality control analysis). Therefore, it would have been obvious to one of ordinary skill in the art to take Rudt, Katz and Hunt as a whole for implementing the definition of a velocity characteristic during the monitoring of a web for quality control purposes and other applications such as stop action photography, low light photography, photographic archivial recording, intermittent condition monitoring, and video security (col.1, ln.10-17).

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (703) 306-5978. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen Wong Examiner Art Unit 2613

AW 3/22/04